

# Synthesis and fluorescent properties of thiacalix[4]arenes containing terpyridyl fragments at the lower rim

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## Abstract

New thiacalix[4]arenes tetrasubstituted by terpyridyl fragments at the lower rims in the 1,3-alternate stereoisomeric form were synthesized. The molecules interact with EuIII and TbIII in the DMF solution to form highly luminescent nanoscale (21-26 nm) metal-organic structures with the 2:1 metal-to-ligand stoichiometry and a narrow particle size distribution. © 2014 Springer Science+Business Media, Inc.

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## Keywords

Fluorescence, Lanthanides, Metal-organic networks, Nanoparticles, Terpyridines, Thiacalix[4]arenes